MARINE ECOLOGY
PROGRESS SERIES

Volume 77 (1991)

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Inter-Research
1991

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Environmental effects on invertebrates

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Physiological ecology of invertebrates

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Physiological ecology of microorganisms

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Marine microbiology

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Physiological ecology and reproductive biology of estuarine and marine benthic macroalgae

Westernhagen, H. von, Dr
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Effects of pollution on marine communities

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Physiological ecology of invertebrates

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Resistance to stress including pollution; regulation; adaptation

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Behavioral physiology of fish; feeding; predation of fish larvae

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Physiology and ecology of corals

Burton, R. S., Prof.
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Population genetics; evolutionary mechanisms in populations; biochemical and molecular genetic analyses of invertebrates

Caron, D. A., Dr
Biology Dept, Woods Hole Oceanographic Institution, Woods Hole, MA 02543, USA
Feeding, respiration and nutrient regeneration of protozoans

Chapman, A. R. O., Prof.
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Physiology and demography of macroalgae

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Physiology and biochemistry of zooplankton

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Developmental physiology; endocrinology

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Biological rhythms

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Environmental zoo-physiology; behavior; biological rhythms

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Chemosensory behavior; mathematical models

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Stress effects on invertebrates

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Osmoregulation in estuarine invertebrates

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Behavioural physiology; invertebrate biology

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Physiological energetics of invertebrates, incl. metabolic calorimetry; symbioses; hyperoxia and oxidative stress; effects of UV light; sea anemone biology

Videler, J. J., Dr
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Swimming dynamics of plankton; activity pattern and reproductive strategies of fishes; energy budgets of herbivores

West, J. A., Prof.
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Chemistry of red algae; molecular genetics of red and green algae

Zhirmunsky, A. V., Prof.
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Mechanisms of cellular resistance and control

CULTIVATION

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Nutrition of invertebrates

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Microcosm cultures

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Cultivation of microorganisms and crustaceans; aquaculture; microenvironments

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Cultivation of invertebrates

DYNAMICS

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Phytoplankton ecology

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Coral-reef ecology; benthic ecology

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Ecology of suprabenthic animals; distribution of crustaceans

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Mangrove systems; reef studies

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Microbial ecology; trophic relations between planktonic protozoans and other heterotrophic and photosynthetic organisms; pelagic detrital aggregates

Chapman, A. R. O., Prof.
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Community ecology of rocky shores

Collos, Y., Dr
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Nitrogen cycling and primary production

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Zooplankton biology

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Productivity of the sea; fish-population dynamics; biological oceanography

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Structure and function of fish and benthic communities

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Population biology; microbial ecology

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Dynamics of nearshore ecosystems

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Population and community ecology of macroalgae

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Planktonic microbial ecology. Productivity and growth of microorganisms, especially bacteria

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Ecology of sea birds

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Phytoplankton ecology; community structure, dynamics

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Benthos of deep sea and temperate coasts

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Soft-sediment ecology

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Zoogeography; natural history of fish

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Benthic ecology, emphasis on seagrass ecosystems

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Polar ecology; chemical oceanography; photosynthesis

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Crustacean ecology and biology

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Ecological energetics (particularly feeding)

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Population and community ecology of benthic invertebrates

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Trophodynamics; animal nutrition, energy and nutrient budgets; nutrient cycling; primary productivity; fish biology; seagrass, coral reef, kelp bed ecosystems

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Reproduction of invertebrates; nutrition

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Feeding ecology of deposit feeders; geochemistry of trace elements in sediments

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Deep-sea ecology; radioactive pollution

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Phytoplankton ecology; nutrient cycling

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Ecology of molluscs; community structure of soft-sediment invertebrates

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Coral-reef ecology; shallow-water tropical communities

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Benthos ecology

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Phytoplankton ecology; primary production; photosynthesis

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Dynamics of large organisms; ecology of sea birds

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Microbial food webs; trophic roles of phagotrophic protozoans

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Food webs and trophic interactions

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Rocky-coast ecosystems; deep-sea ecosystems

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Benthic ecology and bioenergetics; production; food chains of detritus-based systems

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Wetlands ecology, incl. submerged seagrasses and emergent marshes; production and utilization of detritus

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Experimental intertidal and subtidal ecology; behavior; life cycles of sessile invertebrates

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Oceanic plankton ecosystems; deep-sea amphipods; biological oceanography

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Organic matter in sea water; theoretical population dynamics; geochemistry; chemical oceanography

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Structure and functioning of benthic communities; meiofaunal ecology; energy flow

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Reproductive dynamics of red algae; fine structure and parasites of algae

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Plankton ecology; community structure, population dynamics

OCEAN MANAGEMENT

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Pollution of marine environments

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Radioactive and conventional pollution

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Effects of man-made and natural disturbances on coral reefs

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Heavy metal pollution; estuarine chemistry

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Toxicology and pollution

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Marine pollution assessment and control

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Pollutant effects on plankton; radioecology

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Pollution effects on zooplankton; radioecology

Gray, J., Prof.
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Pollution effects on benthos animals

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Bioaccumulation of trace contaminants (principally trace elements and radionuclide waste products)

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Toxicology and stress responses in invertebrates

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Radioactive pollution

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Chemical ecology, radioecology, radiotracers, pollution; protection of sea life

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Fish egg and larval survival

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